Evaluating spatial hearing with synchronized cochlear implant processors in the free-field.

**INTRODUCTION**

Cochlear implant (CI) systems have external “processor” with microphone behind ear and internal “implant” that stimulates the auditory nerve. Novel sound processing algorithms in addition to the standard speech processor aim to improve speech understanding and sound localization by processing binaural information.

**OBJECTIVE MEASUREMENTS**

The following steps were implemented for objective measurements of processor outputs:

1. Irregularities by stimulating constant offset
2. Simulating jitter
3. Measuring constant offset
4. Measuring jitter in processors

**PERCEPTUAL MEASUREMENTS**

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REFERENCES